

Work Order ID 63618

November 5, 2010 7:39:32 AM

Page 1

Item ID: D350-689-021

Accept

Setup Start

Revision ID:

Stop

Item Name: Dual High Back Seat, LH

Start Date: 11/05/10 Start Qty: 1.00

Cust Item ID:

Required Date: 11/05/10 Req'd Qty: 1.00

Customer:

Reference:

Approvals:

Process Plan:

Date:

Tooling:

Date:

Run Start

QC:

Date:

SPC (Y/N):

Date:

Stop

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
--------------------------------	--------------------------	----------------------	---------	--------	--------------	---------------	---------------	------------------	----------------

Draw Nbr

Revision Nbr

DSI 9419

A

DSI 9498

A

100

0.00



DOCUMENT CONTROL

DC

Memo

- 0.00

Document Control

Photocopy bluefile and create labels per PPP D350-689-021 CHG002

81010105

105

0.00



Small Fab

Memo

0.00

Small Fab

PULL FROM STOCK:

D350-689-011 B 57471

CONVERT TO D350-689-021
BY INSTALLING DSI 9419-011
PER DRWG DSI 9419 REV.A

27m k w/n/05

(12)

Pro →

DART Dart Aerospace Ltd. 1270 ABERDEEN ST. HAWKESBURY, ON, CANADA K6A 1K7		TC APPROVAL # 09-89 TEL: 1-613-632-5200	
P/N	D350-689-011	CHG	CHG003
DESC.	Dual High Back Seat	STC	SH02-33
LOT	B57471	STC	SR01620NY
MODEL	AS 350/355	STC	
MADE IN CANADA		D2729-1	

Dart Aerospace Ltd

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: D350-689-021 PAR #: Fault Category: Proch eng covel. NCR: Yes No DQA: Date: 10/10/08
 Resolution: re-work Disposition: re-work QA: N/C Closed Date: 10/11/08

NCR: <u>63618</u>		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			
10/11/05	105	Found at Assembly that the DSI 9411-011 has the ^{wrong} bolts in the 1st Port 1st calls for MS24654S-146 but	W 10/11/05	→ Remove MS24654S-153 and replace with MS24654S-146 in 108946 (4P)	M 10/11/05	S 10/11/05	W 10/11/05	S 10/11/05
		W/O called up MS24654S-153. R.C. work work order is incorrect ^{WRONG}	W 10/11/05	→ open all DSI 9411-011 in shell + fix. custom w/b	W 10/11/05	63632	W 10/11/05	S 10/11/05

NOTE: Date & initial all entries

Work Order ID 63618

November 5, 2010 7:39:32 AM

Page 2

Item ID: D350-689-021

Accept

Revision ID:

Item Name: Dual High Back Seat, LH

Start Date: 11/05/10 Start Qty: 1.00

Required Date: 11/05/10 Req'd Qty: 1.00

Reference:

Cust Item ID:

Customer:

Approvals: Process Plan: Date: Tooling: Date: QC: Date: SPC (Y/N): Date:

Run Start Stop

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
--------------------------------	--------------------------	----------------------	---------	--------	--------------	---------------	---------------	------------------	----------------

106

QC5- Inspect part completeness to step on W/O

0.00



QC

Memo

0.00

Quality Control

120

QC4- 100% Inspect kits for completeness

0.00



QC

Memo

0.00

Quality Control

130

Packaging

0.00



Packaging

Memo

0.00

Packaging

Identify and pack for shipping as per PPP D350-689-021
USING NEW B/N - NEW LABELS REQ'D

Location:

PPP Rev: B

6014/15

Work Order ID 63618

November 5, 2010 7:39:33 AM

Page 3

Item ID: D350-689-021

Accept

Setup Start

Revision ID:

Stop

Item Name: Dual High Back Seat, LH

Start Date: 11/05/10 Start Qty: 1.00

Cust Item ID:

Required Date: 11/05/10 Req'd Qty: 1.00

Customer:

Reference:

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____
QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Run Start

Stop

Sequence ID/
Work Center IDOperation
DescriptionSet Up/
Run Hours

Tool ID

Tool #

Plan
CodeAccept
QtyReject
QtyReject
NumberInsp.
Stamp

140

QC21- Final Inspection - Work Order Release

0.00



QC

Memo

0.00

Quality Control

10/11/05

u 10.11.05

Picklist Print

November 5, 2010 7:39:31 AM

Page 1

Work Order ID: 63618

Parent Item: D350-689-021

Parent Item Name: Dual High Back Seat, LH

Start Date: 11/05/10

Required Date: 11/05/10

Start Qty: 1.00

Required Qty: 1.00

Comments: IPP Rev:A 08-12-23 new issue DD verified by: LL 08.12.24 IPP
Rev:B chg002 DD 10.02.12 verified by:JLM

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
---------------------------------	------------------------	---------------	-------------	---------------------	------------------	-----------------	--------------------	----------------	-------------	--------------	---------------	----------------	--------

D350-689-011

Manufactured

No

Each

1.0000

1



Dual High Back Seat

Location

Loc Qty

Loc Code

FG091

1

57471

1

DSI 9419-011

Manufactured

No

Each

3.0000

1



Energy Attenuating Conversion

Location

Loc Qty

Loc Code

FG020

3

44100

3

350-689-023 x1

CHG001

B 44453

Co

8
10/11/15

D350-689-013

return to sth

B 58817 Co 10/11/15

B57471 m-d
w/nlos

B44100 m-d
w/nlos

DART SERVICE INSTRUCTION

TO AMEND INSTALLATION INSTRUCTIONS IIN-D350-689 REV. A
AND FLIGHT MANUAL SUPPLEMENT FMS-D350-689 REV. A
AND INSTRUCTIONS FOR CONTINUED AIRWORTHINESS ICA-D350-689 REV. 0
REF. CANADIAN STC: SH02-33
REF. FAA STC: SR01620NY

63618

PURPOSE

The purpose of this DSI is to add the D350-689-021 Dual High Back Seat Installation, LH, the D350-689-023 Floor Provisions Kit and the D350-689-043 Dual High Back Seat Assembly to IIN-D350-689 Rev. A. The D350-689-021/-023 Kits are compatible with the Energy Attenuating Seat rails in later AS 350/355 model aircraft.

The DSI 9419-011 Kit includes the parts that are required to convert a D350-689-011 installation into a D350-689-021 installation.

PART LIST




-011	-021	-023	-043	P/N	DESCRIPTION
X				DSI 9419-011	ENERGY ATTENUATING CONVERSION KIT
	X			D350-689-021	DUAL HIGH BACK SEAT INSTALLATION, LH
	1	X		D350-689-023	ENERGY ATTENUATING FLOOR PROVISIONS KIT
	1		X	D350-689-043	DUAL HIGH BACK SEAT ASSEMBLY
			2	D3016-041	SEAT FRAME ASSEMBLY
			1	D3017-041	BACK FRAME ASSEMBLY
	1			D3018-1	SEAT CUSHION
	1			D3019-1	BACK CUSHION
			1	D3021-041	TUBE ASSEMBLY
			1	D3022-1	SEAT PAN
			1	D3023-1	BACK PANEL
			3	D3024-1	SPACER
		1		D3025-1	BEAM
		1		D3026-1	CHANNEL
		1		D3027-1	CLIP
		1		D3027-3	CLIP
		1		D3027-5	CLIP
		4		D3027-7	CLIP
			2	D3031-1	LOOP
1		1		D3234-1	DOUBLER
1		1		D3234-3	DOUBLER
2			2	D3808-041	SEAT RAIL ASSEMBLY
4			4	D3809-1	SLIDING BLOCK
1		1		D3811-041	SEAT TRACK ASSEMBLY

CANADA
DEPARTMENT OF TRANSPORT
AIRCRAFT CERTIFICATION
BRANCH
DAO # 01-Q-01

APPROVED

BY: 
D. SHEPHERD (DE # 02)

DATE: Aug. 19/2008
CERT. NO.: SH02-33
ISSUE NO.: 1

A	NEW ISSUE	RF	08.08.19
REV.	DESCRIPTION	BY	DATE
DESIGN	RF	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN	RF		
CHECKED		DRAWING NO.	REV. A
MFG. APPR.	N/A	DSI 9419	SHEET 1 OF 5
APPROVED		TITLE	SCALE
DE APPR.		ENERGY ATTENUATING PROVISION KIT	NTS
DATE	08.08.19	COPYRIGHT © 2008 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL, AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD	

-011	-021	-023	-043	P/N	DESCRIPTION
			3	AN3-12A	BOLT
14		14		MS20426AD4-5	RIVET
34		34		MS20470AD4-5	RIVET
18		18		MS20470AD4-6	RIVET
		32		MS20470AD5-6	RIVET
			40	MS20600AD4W2	RIVET
			6	MS20600AD4W3	RIVET
9		9	23	MS21042L3	NUT (or MS21042-3)
			4	MS24693-S272	SCREW
8			8	MS24694-S3	SCREW
9		9		MS24694-S50	SCREW
4			4	MS24694-S148	SCREW
			4	MS27039-1-17	SCREW
			12	MS27039-1-19	SCREW
			23	NAS1149D0332J	WASHER (or AN960JD10L)
9		9		NAS1149D0363J	WASHER (or AN960JD10)

PROCEDURE




1. Install the under floor structure as outlined in steps 1-18 of IIN-D350-689 Rev. A and DSI 9311 Rev. A as applicable, except do not install D3032-1 Spacers. Attach D3026-1 Channel to floor using (14) MS20426AD4 rivets. Ensure D3234-1/-3 Doublers are installed per DSI 9269 Rev. A.
2. Position the D3811-041 Seat Track Assy at LBL 27.33 as shown in Figure 1 to be in-line with the existing seat rails at LBL 8.98 and LBL 19.16.
3. Transfer the attachment holes from D3811-041 Seat Track Assy to aircraft floor (9 pls) using a $\varnothing 0.201$ (#7 drill). Deburr holes. Install D3811-041 using (9) MS24694-S50 screws, (9) NAS1149D0363J washers, and (9) MS21042L3 nuts as shown in Figure 1. Torque screws to 20 to 25 in-lbs (2.3 to 2.8 Nm).
4. If converting a -041 Seat Assembly to a -043 Seat Assembly, remove D3028-1 Studs, D3029-1 Springs, and D3030-1 Locks from the D350-689-041 Seat Assembly. Install (2) D3808-041 Seat Rails Assemblies as shown in Figure 1 Detail A using (4) MS24694-S148 Screws. Torque screws to 100 to 140 in-lbs (11.3 to 15.8 Nm). Install D3809-1 Sliding Blocks using (2) MS24694-S3 screws as shown in Figure 1 Detail A. Torque screws to 12 to 15 in-lbs (1.4 to 1.7 Nm).
5. Remove screws from back end of Seat Tracks at LBL 27.33 and LBL 8.98. Slide D350-689-043 Seat Assembly into both seat tracks and lock in desired position using D3810-1 Retractable Spring Plungers. Re-install screws on back of seat tracks per the Aircraft Maintenance Manual.

CANADA
DEPARTMENT OF TRANSPORT
AIRCRAFT CERTIFICATION
BRANCH
DAO # 01-O-01

APPROVED

BY: 
D. SHEPHERD (DE # 02)

DATE: Aug. 19/2008
CERT. NO.: SH02-33
ISSUE NO.: 1

DESIGN	RF	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN	RF		
CHECKED		DRAWING NO.	REV. A
MFG. APPR.	N/A	DSI 9419	SHEET 2 OF 5
APPROVED		TITLE	SCALE
DE APPR.		ENERGY ATTENUATING PROVISION KIT	NTS
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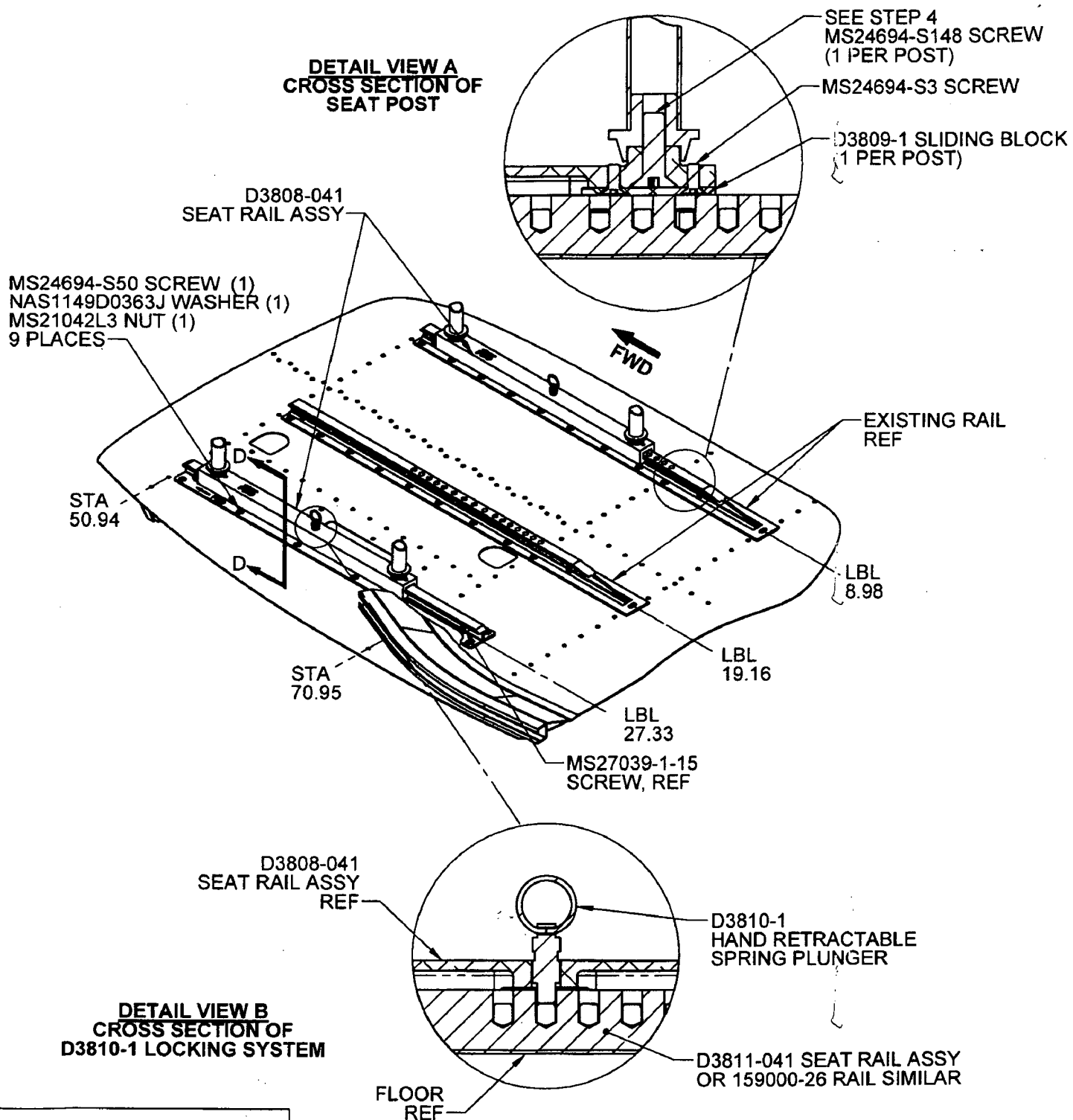


FIGURE 1 D350-689-021 INSTALLATION

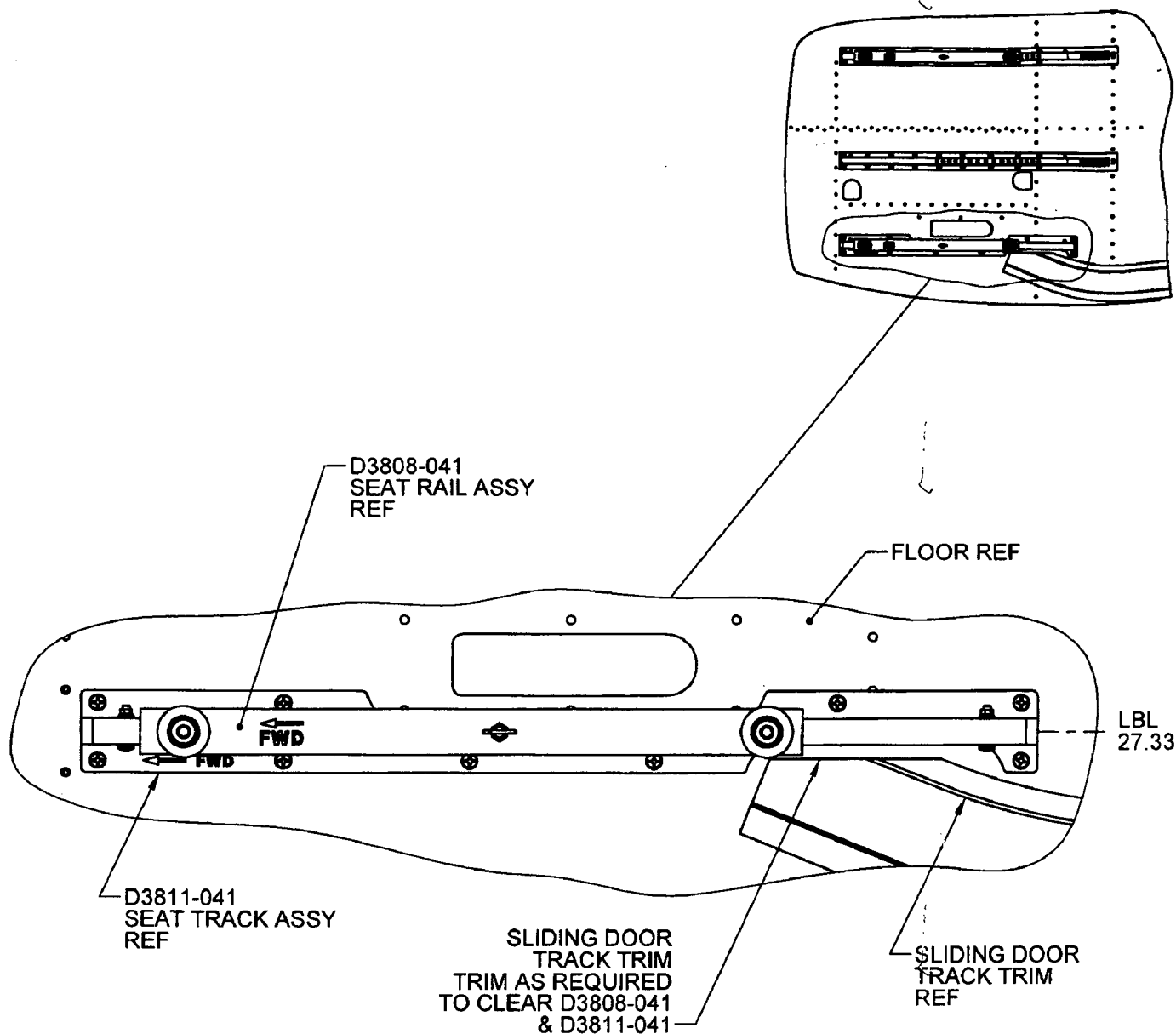
CANADA
DEPARTMENT OF TRANSPORT
AIRCRAFT CERTIFICATION
BRANCH
DAO # 01-O-01

APPROVED

BY: *[Signature]*
D. SHEPHERD (DE # 02)

DATE: Aug. 19/2008
CERT. NO.: SH02-33
ISSUE NO.: 1

DESIGN	RF	DART AEROSPACE LTD	
DRAWN	RF	HAWKESBURY, ONTARIO, CANADA	
CHECKED	RF	DRAWING NO.	REV. A
MFG. APPR.	N/A	DSI 9419	SHEET 3 OF 5
APPROVED	RF	TITLE	SCALE
DE APPR.	RF	ENERGY ATTENUATING PROVISION KIT	NTS
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**DETAIL VIEW C
SLIDING DOOR TRACK TRIM**

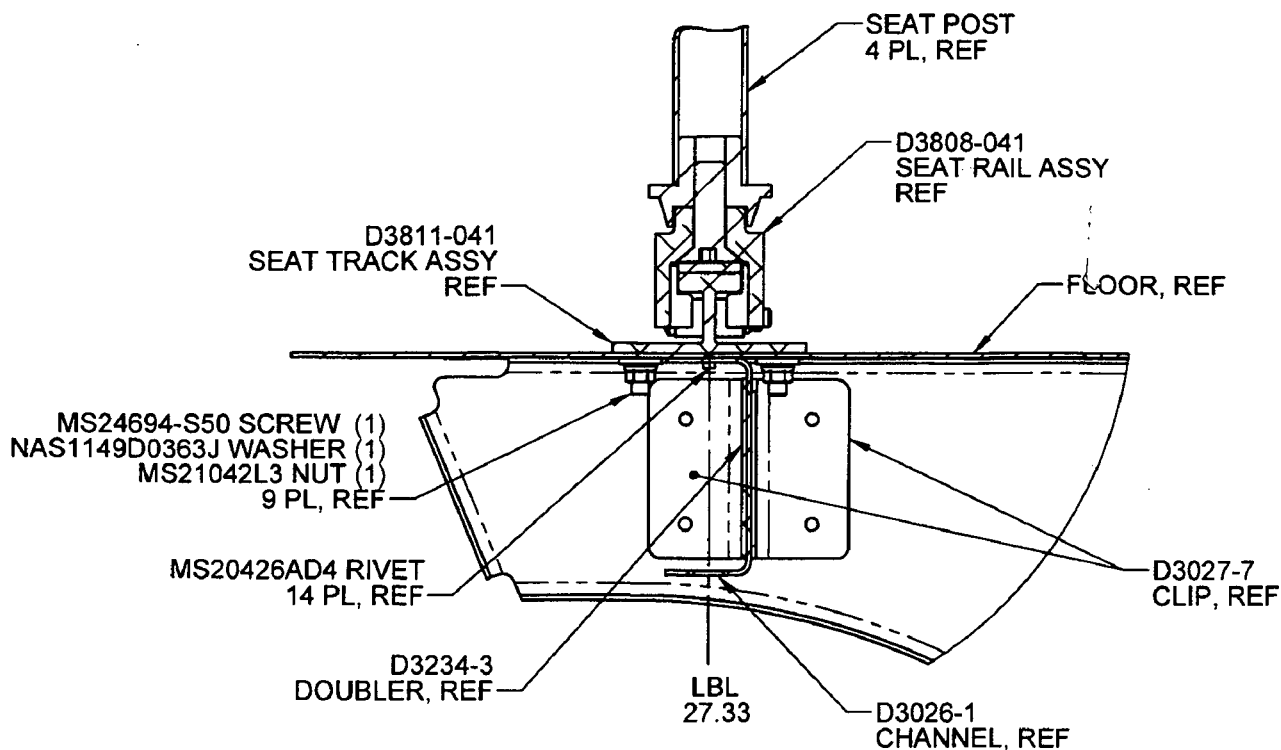
CANADA
DEPARTMENT OF TRANSPORT
AIRCRAFT CERTIFICATION
BRANCH
DAO # 01-O-01

APPROVED

BY: *[Signature]*
D. SHEPHERD (DE # 02)

DATE: Aug. 19/2008
CERT. NO.: SH02-33
ISSUE NO.: 1

DESIGN	RF	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN	RF		
CHECKED	RF	DRAWING NO.	REV. A
MFG. APPR.	N/A	DSI 9419	SHEET 4 OF 5
APPROVED	RF	TITLE	SCALE
DE APPR.	RF	ENERGY ATTENUATING PROVISION KIT	
DATE	08.08.19	COPYRIGHT © 2008 BY DART AEROSPACE LTD <small>THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.</small>	



CROSS SECTION D-D

WEIGHT AND BALANCE

The following is the net weight increase associated with the Kits.

Installation	Weight	LATERAL		LONGITUDINAL	
		Arm	Moment	Arm	Moment
DSI 9419-011 Energy Attenuating Conversion Kit	1.1 lb 0.50 kg	-18.2 in -0.46 m	-20 in-lb -0.2 m-kg	60.7 in 1.54 m	67 in-lb 0.77 m-kg
D350-689-021 Dual High Back Seat Installation, LH Fwd Position	28.6 lb 13.0 kg	-18.2 in -0.46 m	-521 in-lb -6.0 m-kg	60.7 in 1.54 m	1736 in-lb 20.0 m-kg
D350-689-021 Dual High Back Seat Installation, LH Aft Position	28.6 lb 13.0 kg	-18.2 in -0.46 m	-521 in-lb -6.0 m-kg	64.7 in 1.64 m	1850 in-lb 21.3 m-kg
D350-689-023 Energy Attenuating Floor Provisions Kit	2.5 lb 1.1 kg	-18.2 in -0.46 m	-46 in-lb -0.5 m-kg	62.2 in 1.58 m	156 in-lb 1.7 m-kg

REVISED LOADING CHART

With respect to the Loading Chart in FMS-D350-689, when the Dual High Back Seat has been installed in an aircraft with Energy Attenuating Seat rails per this DSI, the occupants are located at STA 61.02 when the seat is in the Fwd position and at STA 65.02 when the seat is in the Aft position.

CANADA
DEPARTMENT OF TRANSPORT
AIRCRAFT CERTIFICATION
BRANCH
DAO # 01-O-01

APPROVED

BY: *[Signature]*
D. SHEPHERD (DE # 02)

DATE: Aug. 19/2008
CERT. NO.: SH02-33
ISSUE NO.: 1

DESIGN	RF	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN	RF		
CHECKED	<i>[Signature]</i>	DRAWING NO.	REV. A
MFG. APPR.	N/A	DSI 9419	SHEET 5 OF 5
APPROVED	<i>[Signature]</i>	TITLE	SCALE
DE APPR.	<i>[Signature]</i>	ENERGY ATTENUATING PROVISION KIT	NTS
DATE	08.08.19	COPYRIGHT © 2008 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL, AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.	

Date: Friday, 30/01/2009 7:34:10 AM
 User: Kim Johnston

Process Sheet

Customer	: CU-DAR001 Dart Helicopters Services	Drawing Name	: ENERGY ATTENUATING PROVISION KIT
Job Number	: 44100		
Estimate Number	: 13548		
P.O. Number	:	Part Number	: DSI 9419011
This Issue	: 30/01/2009 S.O. No. :	Drawing Number	: DSI9419 REV A
Prsht Rev.	: NC	Project Number	: N/A
First Issue	: 16/12/2008 Type : MACHINED PARTS	Drawing Revision	: A
Previous Run	: 43943	Material	:
Written By	: <u>W</u>	Due Date	: 23/12/2008 Qty: 4 Um: Each
Checked & Approved By	:		
Comment	: Est Rev:A New Issue 08-08-14 JLM Verified By: LL		

REFERENCE ONLY

Additional Product

Job Number:



Seq. #:	Machine Or Operation:	Description :
---------	-----------------------	---------------

1.0	DC	DOCUMENT CONTROL
-----	----	------------------



JUD 08/12/23



Comment: Photocopy bluefile & type labels per PPPDSI 9419-011 CHG 001

S02 10/27

2.0	PACKAGING 1	PACKAGING RESOURCE #1
-----	-------------	-----------------------



Comment: PACKAGING RESOURCE #1
 Pick Packing Kit

3.0	D32341	Doubler
-----	--------	---------



Comment: Qty.: 1.0000 Each(s)/Unit Total: 4.0000 Each(s)

Doubler

BATCH: B43629

SC

4.0	D32343	Doubler
-----	--------	---------



Comment: Qty.: 1.0000 Each(s)/Unit Total: 4.0000 Each(s)

Doubler

BATCH: B43630

SC

5.0	D3808041	Seat Rail Assembly
-----	----------	--------------------



Comment: Qty.: 2.0000 Each(s)/Unit Total: 8.0000 Each(s)

Seat Rail Assembly

BATCH: B44178

44098 9/1/14

SC

Date: Tuesday, 16/12/2008 11:21:47 AM
User: Linda Lacelle

Process Sheet

Customer: CU-DAR001 Dart Helicopters Services

Drawing Name: ENERGY ATTENUATING PROVISION KIT

Job Number: 44100

Part Number: DSI 9419011

Job Number:



REFERENCE ON:

Seq. #:

Machine Or Operation:

Description :

6.0

D38091

Sliding Block



Comment: Qty.: 4.0000 Each(s)/Unit Total : 16.0000 Each(s)

Sliding Block

BATCH: 1344188

Scp

7.0

D3811041

Seat Track Assembly



Comment: Qty.: 1.0000 Each(s)/Unit Total : 4.0000 Each(s)

Seat Track Assembly

Scp

8.0

MS20426AD45

Rivet



Comment: Qty.: 14.0000 Each(s)/Unit Total : 56.0000 Each(s)

Rivet

8/12/30

Scp

9.0

MS20470AD45

Rivet, Universal Head



Comment: Qty.: 34.0000 Each(s)/Unit Total : 136.0000 Each(s)

Rivet, Universal Head

BATCH: 1106918

Scp

10.0

MS20470AD46

Rivet, Universal Head



Comment: Qty.: 18.0000 Each(s)/Unit Total : 72.0000 Each(s)

Rivet, Universal Head

BATCH: 1109371

Scp

11.0

MS21042L3

Nut



Comment: Qty.: 9.0000 Each(s)/Unit Total : 36.0000 Each(s)

Nut

BATCH: 1108816

Scp

12.0

MS24694S3

Screw



Comment: Qty.: 8.0000 Each(s)/Unit Total : 32.0000 Each(s)

Screw

BATCH: 1108936

8/12/29

Scp

Date: Tuesday, 16/12/2008 11:21:48 AM
User: Linda Lacelle

Process Sheet

Customer: CU-DAR001 Dart Helicopters Services

Drawing Name: ENERGY ATTENUATING PROVISION KIT

Job Number: 44100

Part Number: DSI 9419011

Job Number:



Seq. #:

Machine Or Operation:

Description: REFERENCE ONLY

13.0

MS24694S50

Screw



Comment: Qty.: 9.0000 Each(s)/Unit Total: 36.0000 Each(s)

Screw

BATCH: M108936

SP

14.0

MS24694S153

Screw



Comment: Qty.: 4.0000 Each(s)/Unit Total: 16.0000 Each(s)

Screw

BATCH: M108936

SP

15.0

AN960JD10

Washer



Comment: Qty.: 9.0000 Each(s)/Unit Total: 36.0000 Each(s)

Washer

BATCH: M109061

8/12/29

SP

16.0

QC4

INSPECT 100% KITS FOR COMPLETENESS



Comment: INSPECT 100% KITS FOR COMPLETENESS

Soda 27 X4

~~Soda 15 X4~~

17.0

PACKAGING 1

PACKAGING RESOURCE #1



Comment: PACKAGING RESOURCE #1

Identify and pack for shipping as per PPP DSI9419-011

Location:

PPP Rev: A

9/11/15

SP

18.0

QC21

FINAL INSPECTION/W/O RELEASE



Comment: FINAL INSPECTION/W/O RELEASE

09/01/28

Job Completion



u 09/01/28
W 09/01/28

DART SERVICE INSTRUCTION

TO AMEND INSTALLATION INSTRUCTIONS IIN-D350-689 REV. A
AND FLIGHT MANUAL SUPPLEMENT FMS-D350-689 REV. A
AND INSTRUCTIONS FOR CONTINUED AIRWORTHINESS ICA-D350-689 REV. 0
REF. CANADIAN STC: SH02-33
REF. FAA STC: SR01620NY

REFERENCE ONLY

PURPOSE

The purpose of this DSI is to add the D350-689-021 Dual High Back Seat Installation, LH, the D350-689-023 Floor Provisions Kit and the D350-689-043 Dual High Back Seat Assembly to IIN-D350-689 Rev. A. The D350-689-021/-023 Kits are compatible with the Energy Attenuating Seat rails in later AS 350/355 model aircraft.

The DSI 9419-011 Kit includes the parts that are required to convert a D350-689-011 installation into a D350-689-021 installation.

PART LIST

-011	-021	-023	-043	P/N	DESCRIPTION
X				DSI 9419-011	ENERGY ATTENUATING CONVERSION KIT
	X			D350-689-021	DUAL HIGH BACK SEAT INSTALLATION, LH
	1	X		D350-689-023	ENERGY ATTENUATING FLOOR PROVISIONS KIT
	1		X	D350-689-043	DUAL HIGH BACK SEAT ASSEMBLY
			2	D3016-041	SEAT FRAME ASSEMBLY
			1	D3017-041	BACK FRAME ASSEMBLY
	1			D3018-1	SEAT CUSHION
	1			D3019-1	BACK CUSHION
			1	D3021-041	TUBE ASSEMBLY
			1	D3022-1	SEAT PAN
			1	D3023-1	BACK PANEL
			3	D3024-1	SPACER
		1		D3025-1	BEAM
		1		D3026-1	CHANNEL
		1		D3027-1	CLIP
		1		D3027-3	CLIP
		1		D3027-5	CLIP
		4		D3027-7	CLIP
			2	D3031-1	LOOP
1		1		D3234-1	DOUBLER
1		1		D3234-3	DOUBLER
2			2	D3808-041	SEAT RAIL ASSEMBLY
4			4	D3809-1	SLIDING BLOCK
1		1		D3811-041	SEAT TRACK ASSEMBLY

CANADA
DEPARTMENT OF TRANSPORT
AIRCRAFT CERTIFICATION
BRANCH
DAO # 01-O-01

APPROVED

BY: 
D. SHEPHERD (DE # 02)

DATE: Aug. 19/2008
CERT. NO.: SH02-33
ISSUE NO.: 1

A	NEW ISSUE	RF	08.08.19
REV.	DESCRIPTION	BY	DATE
DESIGN	RF	DART AEROSPACE LTD	
DRAWN	RF	HAWKESBURY, ONTARIO, CANADA	
CHECKED	RF	DRAWING NO.	REV. A
MFG. APPR.	N/A	DSI 9419	SHEET 1 OF 5
APPROVED	RF	TITLE	SCALE
DE APPR.	RF	ENERGY ATTENUATING PROVISION KIT	NTS
DATE	08.08.19	COPYRIGHT © 2008 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.	

REFERENCE ONLY

-011	-021	-023	-043	P/N	DESCRIPTION
			3	AN3-12A	BOLT
14		14		MS20426AD4-5	RIVET
34		34		MS20470AD4-5	RIVET
18		18		MS20470AD4-6	RIVET
		32		MS20470AD5-6	RIVET
			40	MS20600AD4W2	RIVET
			6	MS20600AD4W3	RIVET
9		9	23	MS21042L3	NUT (or MS21042-3)
			4	MS24693-S272	SCREW
8			8	MS24694-S3	SCREW
9		9		MS24694-S50	SCREW
4			4	MS24694-S148	SCREW
			4	MS27039-1-17	SCREW
			12	MS27039-1-19	SCREW
			23	NAS1149D0332J	WASHER (or AN960JD10L)
9		9		NAS1149D0363J	WASHER (or AN960JD10)

PROCEDURE




1. Install the under floor structure as outlined in steps 1-18 of IIN-D350-689 Rev. A and DSI 9311 Rev. A as applicable, except do not install D3032-1 Spacers. Attach D3026-1 Channel to floor using (14) MS20426AD4 rivets. Ensure D3234-1/-3 Doublers are installed per DSI 9269 Rev. A.
2. Position the D3811-041 Seat Track Assy at LBL 27.33 as shown in Figure 1 to be in-line with the existing seat rails at LBL 8.98 and LBL 19.16.
3. Transfer the attachment holes from D3811-041 Seat Track Assy to aircraft floor (9 pls) using a $\phi 0.201$ (#7 drill). Deburr holes. Install D3811-041 using (9) MS24694-S50 screws, (9) NAS1149D0363J washers, and (9) MS21042L3 nuts as shown in Figure 1. Torque screws to 20 to 25 in-lbs (2.3 to 2.8 Nm).
4. If converting a -041 Seat Assembly to a -043 Seat Assembly, remove D3028-1 Studs, D3029-1 Springs, and D3030-1 Locks from the D350-689-041 Seat Assembly. Install (2) D3808-041 Seat Rails Assemblies as shown in Figure 1 Detail A using (4) MS24694-S148 Screws. Torque screws to 100 to 140 in-lbs (11.3 to 15.8 Nm). Install D3809-1 Sliding Blocks using (2) MS24694-S3 screws as shown in Figure 1 Detail A. Torque screws to 12 to 15 in-lbs (1.4 to 1.7 Nm).
5. Remove screws from back end of Seat Tracks at LBL 27.33 and LBL 8.98. Slide D350-689-043 Seat Assembly into both seat track and lock in desired position using D3810-1 Retractable Spring Plungers. Re-install screws on back of seat tracks per the Aircraft Maintenance Manual.

CANADA
DEPARTMENT OF TRANSPORT
AIRCRAFT CERTIFICATION
BRANCH
DAO # 01-O-01

APPROVED

BY: 
D. SHEPHERD (DE # 02)

DATE: Aug. 19/2008
CERT. NO.: SH02-33
ISSUE NO.: 1

DESIGN	RF	DART AEROSPACE LTD	
DRAWN	RF	HAWKESBURY, ONTARIO, CANADA	
CHECKED		DRAWING NO.	REV. A
MFG. APPR.	N/A	DSI 9419	SHEET 2 OF 5
APPROVED		TITLE	SCALE
DE APPR.		ENERGY ATTENUATING PROVISION KIT	NTS
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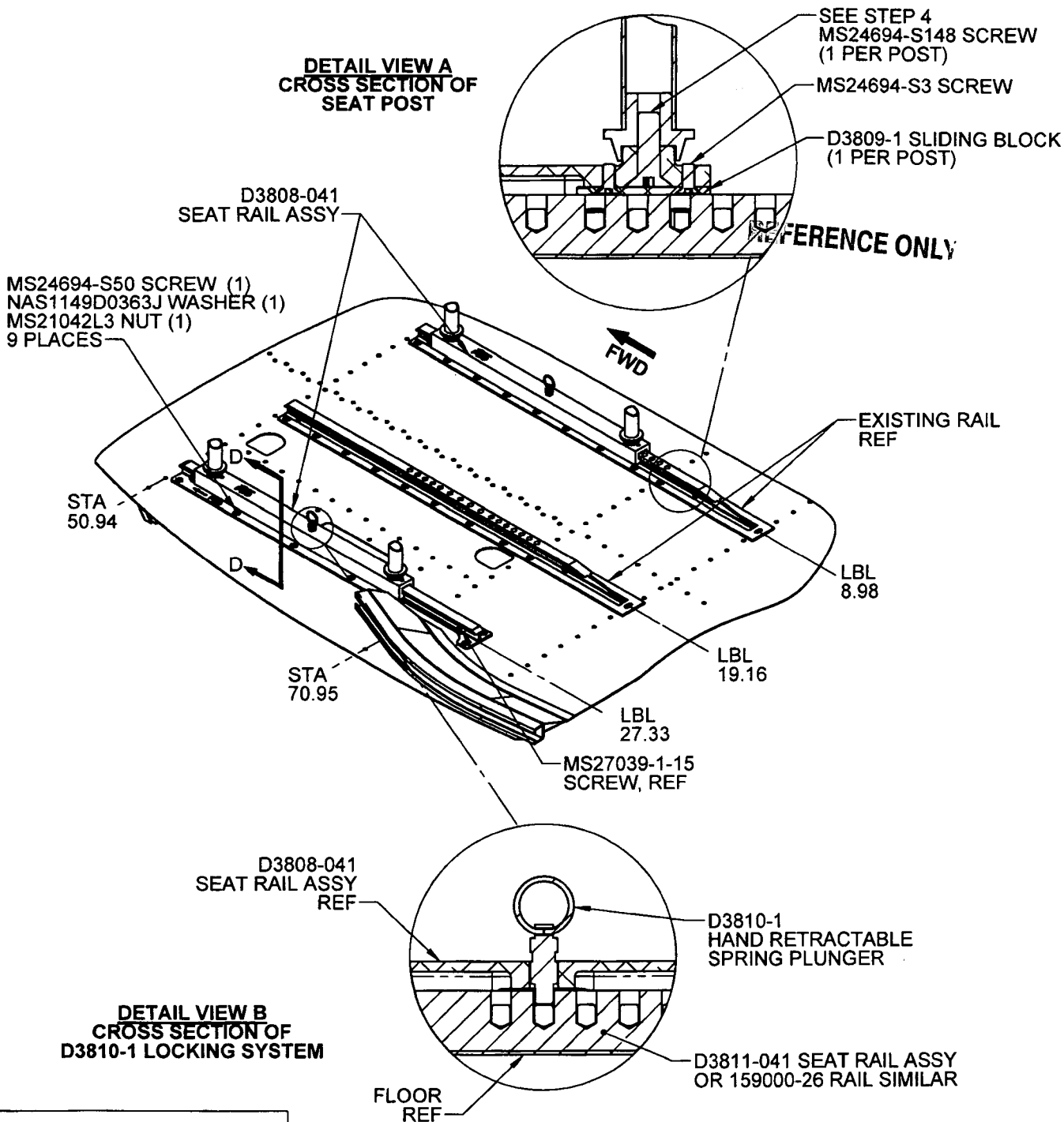


FIGURE 1 D350-689-021 INSTALLATION

CANADA
DEPARTMENT OF TRANSPORT
AIRCRAFT CERTIFICATION
BRANCH
DAO # 01-O-01

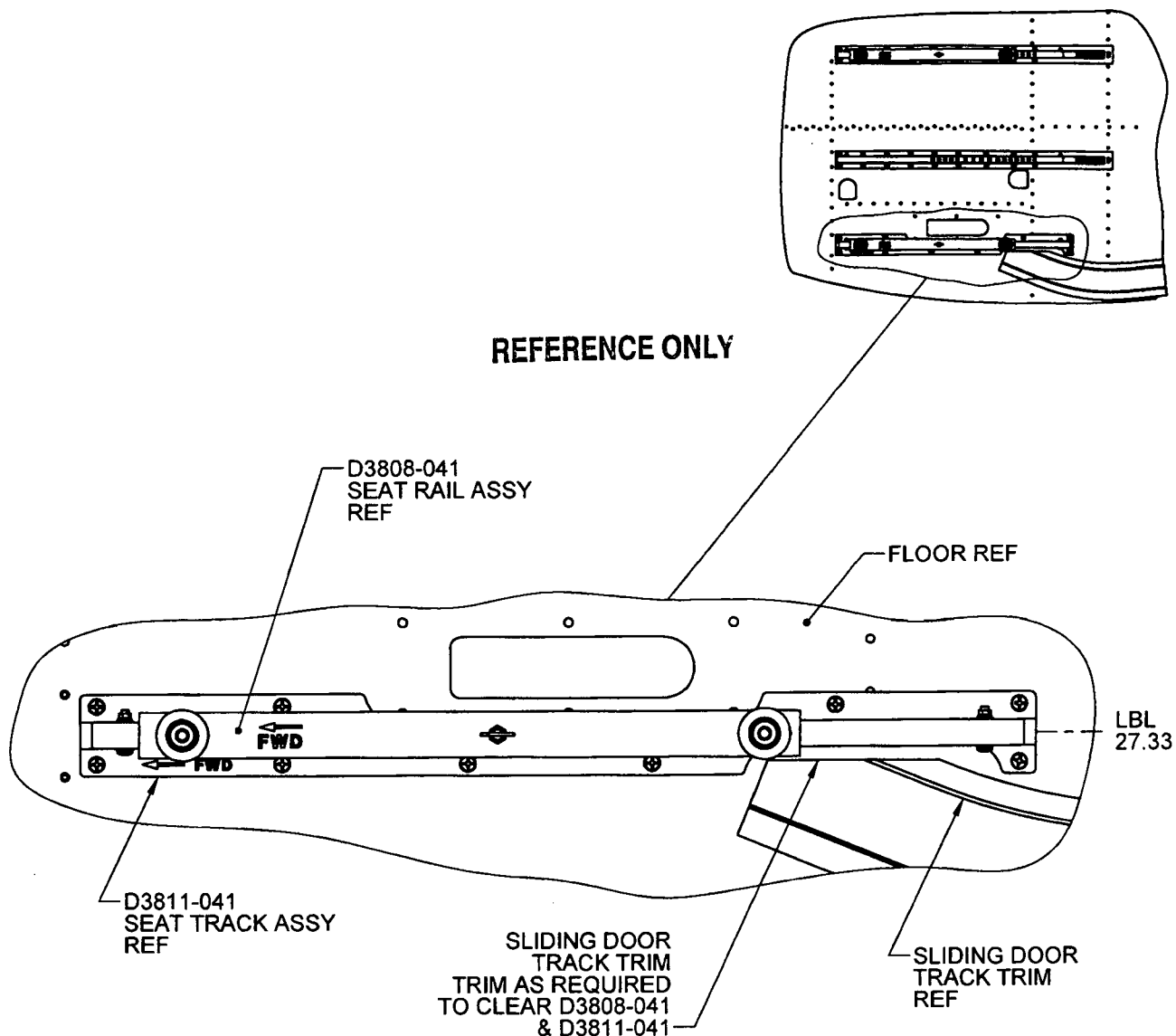
APPROVED

BY:

D. SHEPHERD (DE # 02)

DATE: Aug. 19/2008
CERT. NO.: SH02-33
ISSUE NO.: 1

DESIGN	RF	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN	RF		
CHECKED	RF	DRAWING NO. DSI 9419	REV. A
MFG. APPR.	N/A		SHEET 3 OF 5
APPROVED	RF	TITLE	SCALE
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**DETAIL VIEW C
SLIDING DOOR TRACK TRIM**

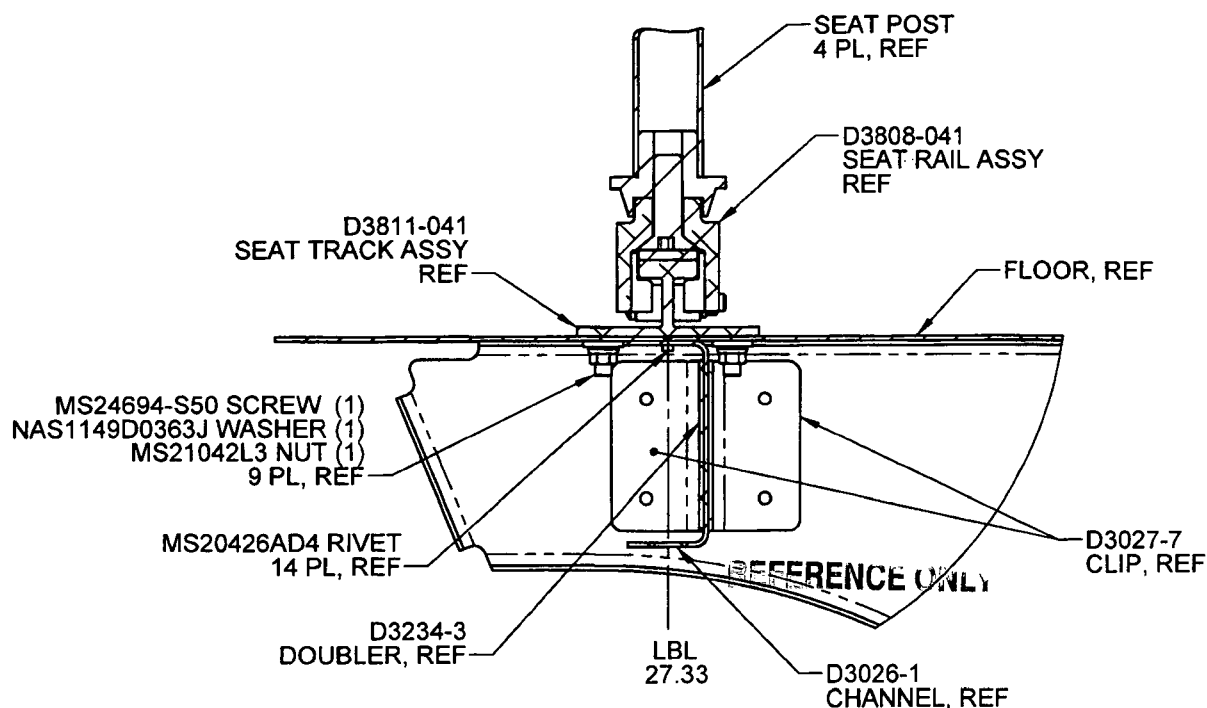
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AIRCRAFT CERTIFICATION
BRANCH
DAO # 01-O-01

APPROVED

BY: *[Signature]*
D. SHEPHERD (DE # 02)

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MFG. APPR.	N/A		SHEET 4 OF 5
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CROSS SECTION D-D

WEIGHT AND BALANCE

The following is the net weight increase associated with the Kits.

Installation	Weight	LATERAL		LONGITUDINAL	
		Arm	Moment	Arm	Moment
DSI 9419-011 Energy Attenuating Conversion Kit	1.1 lb 0.50 kg	-18.2 in -0.46 m	-20 in-lb -0.2 m-kg	60.7 in 1.54 m	67 in-lb 0.77 m-kg
D350-689-021 Dual High Back Seat Installation, LH Fwd Position	28.6 lb 13.0 kg	-18.2 in -0.46 m	-521 in-lb -6.0 m-kg	60.7 in 1.54 m	1736 in-lb 20.0 m-kg
D350-689-021 Dual High Back Seat Installation, LH Aft Position	28.6 lb 13.0 kg	-18.2 in -0.46 m	-521 in-lb -6.0 m-kg	64.7 in 1.64 m	1850 in-lb 21.3 m-kg
D350-689-023 Energy Attenuating Floor Provisions Kit	2.5 lb 1.1 kg	-18.2 in -0.46 m	-46 in-lb -0.5 m-kg	62.2 in 1.58 m	156 in-lb 1.7 m-kg

REVISED LOADING CHART

With respect to the Loading Chart in FMS-D350-689, when the Dual High Back Seat has been installed in an aircraft with Energy Attenuating Seat rails per this DSI, the occupants are located at STA 61.02 when the seat is in the Fwd position and at STA 65.02 when the seat is in the Aft position.

CANADA
DEPARTMENT OF TRANSPORT
AIRCRAFT CERTIFICATION
BRANCH
DAO # 01-O-01

APPROVED
BY: *[Signature]*
D. SHEPHERD (DE # 02)

DATE: Aug. 19/2008
CERT. NO.: SH02-33
ISSUE NO.: 1

DESIGN	RF	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN	RF		
CHECKED	RF	DRAWING NO.	REV. A
MFG. APPR.	N/A	DSI 9419	SHEET 5 OF 5
APPROVED	RF	TITLE	SCALE
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Work Order ID 57471

April 7, 2010 11:00:20 AM



Page 1

Item ID: D350-689-011

Accept



Setup Start



Revision ID:

Item Name: Dual High Back Seat

Stop



Start Date: 07/04/2010 Start Qty: 1.00



Cust Item ID:

Required Date: 16/04/2010 Req'd Qty: 1.00

Customer:

Reference:

Approvals:

Process Plan: RV

Date: 10-4-07

Tooling:

Date:

Run Start



QC:

Date:

SPC (Y/N):

Date:

Stop



Sequence ID/
Work Center ID

Operation
Description

Set Up/
Run Hours

Draw
Number

Draw
Rev.

Plan
Code

Accept
Qty

Reject
Qty

Reject
Number

Insp.
Stamp

Draw Nbr

Revision Nbr

DSI 9498

A

IIN-D350-689

A

100

0.00



DC

DOCUMENT CONTROL

Memo

0.00

Document Control

Photocopy bluefile and create labels per PPP D350-689-011 CHG003

8 labels

10-4-07

110

Pick Kit

0.00



Packaging

Memo

0.00

Packaging

REFERENCE ONLY

10-4-07

Work Order ID 57471

April 7, 2010 11:00:20 AM



Page 2

Item ID: D350-689-011

Accept



Setup Start



Revision ID:

Stop



Item Name: Dual High Back Seat

Start Date: 07/04/2010 Start Qty: 1.00



Cust Item ID:

Required Date: 16/04/2010 Req'd Qty: 1.00



Customer:

Reference:

Approvals:

Process Plan:

Date:

Tooling:

Date:

Run Start



QC:

Date:

SPC (Y/N):

Date:

Stop

Sequence ID/
Work Center IDOperation
DescriptionSet Up/
Run HoursDraw
NumberDraw
Rev.Plan
CodeAccept
QtyReject
QtyReject
NumberInsp.
Stamp

120

QC4- 100% Inspect kits for completeness

0.00



QC

Memo

0.00

Quality Control

5.106663

Q

130

Packaging

0.00



Packaging

Memo

0.00

Packaging

Identify and pack for shipping as per PPP D350-689-011

Location:

PPP Rev:

91

16-6-35

140

QC21- Final Inspection - Work Order Release

0.00



QC

Memo

0.00

Quality Control

10/06/04

MC

10-6-03

Sicklist Print

April 7, 2010 11:00:25 AM

Page 1

Work Order ID: 57471

Parent Item: D350-689-011

Parent Item Name: Dual High Back Seat

Comments: IPP Rev:B 03.05.09 Reformat; Modify Step 1 KJ/RF IPP Rev:C chg003 per DSI 9498 DD 10.02.11 verified by:JLM

Start Date: 07/04/2010

Required Date: 16/04/2010

Start Qty: 1.00

Required Qty: 1.00

Component Item-ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Remaining Qty To Pick	Qty Issued	Date Issued	Status
D3018-1 Seat Cushion		Manufactured	No			110	Each	3.0000	1.0000		10-6-3	sf

Warehouse	Loc Qty	Loc Code
Location		
Main Warehouse		
ST420A	3	
43272	1	
44153	2	

D3019-1 Seat Cushion		Manufactured	No			110	Each	3.0000	1.0000		10-6-3	sf
-------------------------	--	--------------	----	--	--	-----	------	--------	--------	--	--------	----

Warehouse	Loc Qty	Loc Code
Location		
Main Warehouse		
ST420A	3	
44154	3	

D350-689-013 Floor Provisions		Manufactured	No			110	Each	0.0000	1.0000		10-6-3	sf
D350-689-041 Dual High Back Seat Ass'y		Manufactured	No			110	Each	1.0000	1.0000		10-6-3	sf

Warehouse	Loc Qty	Loc Code
Location		
Main Warehouse		
ST251B	1	
56775	1	

Work Order ID 56775

Tuesday, March 09, 2010 12:35:29 PM

Page 1

Item ID: D350-689-041

Accept

Revision ID:

Item Name: Dual High Back Seat Ass'y

Start Date: 3/9/2010 Start Qty: 1.00

Required Date: 3/23/2010 Req'd Qty: 1.00

Reference:

Approvals: Process Plan: *UMF*

Date: *10-3-9*

Tooling:

Date:

QC:

Date:

SPC (Y/N):

Date:

Run Start

Stop

Sequence ID/
Work Center ID

Operation
Description

Set Up/
Run Hours

Draw
Number

Draw
Rev.

Plan
Code

Accept
Qty

Reject
Qty

Reject
Number

Insp.
Stamp

Draw Nbr

Revision Nbr

DSI 9498

A

IIN D350-689

A

100

0.00



Large Fab

Large Fab

Small Fab

Small FAB

Memo

Assemble as per IIN 350-689-041

0.00

110

QC5- Inspect part completeness to step on W/O

0.00



QC

Quality Control

Memo

0.00

8/06/15



REFERENCE ONLY

8/5/03/15

Work Order ID 56775

Tuesday, March 09, 2010 12:35:29 PM

Page 2

Item ID: D350-689-041

Accept

Revision ID:

Item Name: Dual High Back Seat Ass'y

Start Date: 3/9/2010 Start Qty: 1.00

Required Date: 3/23/2010 Req'd Qty: 1.00

Reference:

Cust Item ID:

Customer:

Approvals:

Process Plan:

Date:

Tooling:

Date:

QC:

Date:

SPC (Y/N):

Date:

Run Start

Stop

Sequence ID/
Work Center ID

Operation
Description

Set Up/
Run Hours

Draw
Number

Draw
Rev.

Plan
Code

Accept
Qty

Reject
Qty

Reject
Number

Insp.
Stamp

120

Grey Sandtex(Ref:4.3.5.6) per QSI005 4.3

0.00



Powdercoat

Memo

0.00

Powder Coating

START TIME:

OVEN TEMPERATURE:

FINISH TIME:

3:55
320°
4:25

BR 10-3-15

①

130

QC3- Inspect Part Finish

0.00



QC

Memo

0.00

Quality Control

10-03-16

(X1)

140

0.00



Large Fab

Small Fab

Memo

0.00

Large Fab

Assemble as per Dwg IIN-D350-689

Small Fab

ES 10/03/16 ①

Picklist Print

Tuesday, March 09, 2010 12:35:28 PM

Page 1

Work Order ID: 56775

Parent Item: D350-689-041

Parent Item Name: Dual High Back Seat Ass'y





Comments: IPP Rev:H Removed Sub-Parts 06-02-09 JLM
IPP Rev:I As per NCR 070 06-09-06 JLM
DSI 9498 DD 10.02.12 verified by:JLM

Start Date: 3/9/2010

Required Date: 3/23/2010

Start Qty: 1.00

Required Qty: 1.00

Component Item ID/	Replacement	Mfg/	Bin	Primary	Last	Route	Unit of	Qty on	Remaining	Qty	Date	Status
D3016-041		Manufactured	No			110	Each	0.0000	1.0000			
												
Seat Frame Assembly												
D3017-041		Manufactured	No			110	Each	0.0000	1.0000			
												
Back Frame Assembly												
D3023-1		Manufactured	No			110	Each	0.0000	1.0000			
												
Back Panel												
MS20600-AD4W2		Purchased	No			110	Each	410.0000	40.0000			
												
Rivet												

B44557 (12)

B52350 (14)

B62354 (17)

EP 10/03/16

EP 10/03/16

EP 10/03/15

EP 10/03/15

Warehouse

Loc Qty

Loc Code

Location

Main Warehouse

ST321

410

109059

50

111359

160

112794

200

40

AN3-12A

Purchased

No

140

Each

83.0000

3.0000



Bolt

EP 10/03/16

Warehouse

Loc Qty

Loc Code

Location

Main Warehouse

ST351

83

106605

23

109297

4

112720

56

3

Picklist Print

Tuesday, March 09, 2010 12:35:28 PM

Page 2

Work Order ID: 56775

Parent Item: D350-689-041

Parent Item Name: Dual High Back Seat Ass'y

Comments: IPP Rev:H Removed Sub-Parts 06-02-09 JLM
IPP Rev:I As per NCR 070 06-09-06 JLM
DSI 9498 DD 10.02.12 verified by:JLM

IPP Rev:J as per

Start Date: 3/9/2010

Required Date: 3/23/2010

Start Qty: 1.00

Required Qty: 1.00

Component Item ID/	Replacement	Mfg/	Bin	Primary	Last	Route	Unit of	Qty on	Remaining	Qty	Date	Status
AN960JD10L		Purchased	No			140	Each	3,105.000	17.0000			



Washer

QSI 017

NAS1149D0332J

M112794 (17x)

Warehouse

Loc Qty

Loc Code

Location

Main Warehouse

ST348

3105

101291

16

105793

49

110985

3040

D3021-041

Manufactured

No

140

Each

0.0000

1.0000



Tube Assembly

D3022-1

Manufactured

No

140

Each

0.0000

1.0000



Seat Pan

D3024-1

Manufactured

No

140

Each

17.0000

3.0000



Spacer

Warehouse

Loc Qty

Loc Code

Location

Main Warehouse

ST034

17

43394

11

50343

6

Tuesday, March 09, 2010 12:35:28 PM

Shop Packet Print

Page 2

Picklist Print

Tuesday, March 09, 2010 12:35:28 PM

Page 3

Work Order ID: 56775

Parent Item: D350-689-041

Parent Item Name: Dual High Back Seat Ass'y

Comments: IPP Rev:H Removed Sub-Parts 06-02-09 JLM
IPP Rev:I As per NCR 070 06-09-06 JLM
DSI 9498 DD 10.02.12 verified by:JLM




IPP Rev:J as per

Start Date: 3/9/2010

Required Date: 3/23/2010

Start Qty: 1.00

Required Qty: 1.00

Component Item ID/	Replacement	Mfg/	Bin	Primary	Last	Route	Unit of	Qty on	Remaining	Qty	Date	Status
D3028-1		Manufactured	No			140	Each	10.0000	4.0000			
												
Stud												
<i>return to stock</i>												
						<u>Warehouse</u>	<u>Loc Qty</u>	<u>Loc Code</u>				
						<u>Location</u>						
						Main Warehouse						
						ST034	10					
						42446	10					
D3029-1		Manufactured	No			140	Each	8.0000	2.0000			
												
Spring												
						<u>Warehouse</u>	<u>Loc Qty</u>	<u>Loc Code</u>				
						<u>Location</u>						
						Main Warehouse						
						ST034	8					
						46848	8					
D3030-1		Manufactured	No			140	Each	6.0000	2.0000			
												
Lock												
						<u>Warehouse</u>	<u>Loc Qty</u>	<u>Loc Code</u>				
						<u>Location</u>						
						Main Warehouse						
						ST034	6					
						50363	6					

EP 10/03/16
m-l 10/11/05 (4X)

EP 10/03/16
m-l w/11/05 (2X)

EP 10/03/16
m-l w/11/05 (2X)

Tuesday, March 09, 2010 12:35:28 PM

Shop Packet Print

Page 3

Picklist Print

Tuesday, March 09, 2010 12:35:28 PM

Work Order ID: 56775

Parent Item: D350-689-041

Parent Item Name: Dual High Back Seat Ass'y

Comments: IPP Rev:H Removed Sub-Parts 06-02-09 JLM
 IPP Rev:I As per NCR 070 06-09-06 JLM IPP Rev:J as per
 DSI 9498 DD 10.02.12 verified by:JLM

Start Date: 3/9/2010

Required Date: 3/23/2010

Start Qty: 1.00

Required Qty: 1.00

Component Item ID/	Replacement	Mfg/	Bin	Primary	Last	Route	Unit of	Qty on	Remaining	Qty	Date	Status
D3031-1		Manufactured	No			140	Each	17.0000	2.0000			
Loop												

Warehouse Loc Qty Loc Code
Location

Main Warehouse

ST034

17

43395

17

MS20600-AD4W3

Purchased

No

140

Each

2,327.000

6.0000



Cherry Rivets

Warehouse Loc Qty Loc Code
Location

Main Warehouse

ST321

2327

102929

37

104715

10

106375

312

107939

1000

111636

968

Picklist Print

Page 5

Tuesday, March 09, 2010 12:35:28 PM

Work Order ID: 56775



Parent Item: D350-689-041



Parent Item Name: Dual High Back Seat Ass'y

Start Date: 3/9/2010

Required Date: 3/23/2010

Comments: IPP Rev:H Removed Sub-Parts 06-02-09 JLM
 IPP Rev:I As per NCR 070 06-09-06 JLM
 DSI 9498 DD 10.02.12 verified by:JLM

IPP Rev:J as per

Start Qty: 1.00

Required Qty: 1.00

Component Item ID/	Replacement	Mfg/	Bin	Primary	Last	Route	Unit of	Qty on	Remaining	Qty	Date	Status
MS21042L3		Purchased	No			140	Each	2,353.000	17.0000			
Nut												



ES 10/03/10

Warehouse

Loc Qty

Loc Code

Location

Main Warehouse

ST	2347
110844	35
111274	27
111668	52
112314	285
112385	228
113523	20
113537	700
113644	1000

17

Main Warehouse

ST139	6
111668	6

Tuesday, March 09, 2010 12:35:28 PM

Shop Packet Print

Page 5

Picklist Print

Tuesday, March 09, 2010 12:35:28 PM

Page 6

Work Order ID: 56775



Parent Item: D350-689-041



Parent Item Name: Dual High Back Seat Ass'y

Start Date: 3/9/2010

Required Date: 3/23/2010

Comments: IPP Rev:H Removed Sub-Parts 06-02-09 JLM
 IPP Rev:I As per NCR 070 06-09-06 JLM IPP Rev:J as per
 DSI 9498 DD 10.02.12 verified by:JLM

Start Qty: 1.00

Required Qty: 1.00

Component Item ID/	Replacement	Mfg/	Bin	Primary	Last	Route	Unit of	Qty on	Remaining	Qty	Date	Status
MS21042L4		Purchased	No			140	Each	2,392.000	6.0000			
Nut												

EP 10/03/16

Warehouse
Location

Main Warehouse

ST	Loc Qty
102552	6
104248	6
110507	184
111827	220
113422	976
114108	1000
15924	0

MS24693-S272

Purchased

No

140

Each

352.0000

4.0000



Screw



EP 10/03/16

Warehouse
Location

Main Warehouse

ST	Loc Qty
111295	9
111548	43
112492	300

Tuesday, March 09, 2010 12:35:28 PM

Shop Packet Print

Page 6

Picklist Print

Tuesday, March 09, 2010 12:35:28 PM

Page 7

Work Order ID: 56775

Parent Item: D350-689-041

Parent Item Name: Dual High Back Seat Ass'y

Comments: IPP Rev:H Removed Sub-Parts 06-02-09 JLM
 IPP Rev:I As per NCR 070 06-09-06 JLM IPP Rev:J as per
 DSI 9498 DD 10.02.12 verified by:JLM

Start Date: 3/9/2010

Required Date: 3/23/2010

Start Qty: 1.00

Required Qty: 1.00

Component Item ID/	Replacement	Mfg/	Bin	Primary	Last	Route	Unit of	Qty on	Remaining	Qty	Date	Status
MS27039-1-17		Purchased	No			140	Each	92.0000	4.0000			
<div> <div>Screw</div> <div> <div>Warehouse</div> <div>Location</div> <div>Main Warehouse</div> <div>ST</div> <div>11540</div> </div> <div> <div>Loc Qty</div> <div>92</div> <div>92</div> </div> <div> <div>Loc Code</div> <div></div> </div> </div> <div> <div>4</div> <div>Ep 10/03/16</div> </div>												
MS27039-1-19		Purchased	No			140	Each	147.0000	6.0000			
<div> <div>Screw</div> <div> <div>Warehouse</div> <div>Location</div> <div>Main Warehouse</div> <div>ST</div> <div>100089</div> <div>112794</div> </div> <div> <div>Loc Qty</div> <div>147</div> <div>47</div> <div>100</div> </div> <div> <div>Loc Code</div> <div></div> </div> </div> <div> <div>6</div> <div>Ep 10/03/16</div> </div>												
MS27039-4-21		Purchased	No			140	Each	50.0000	6.0000			
<div> <div>Screw</div> <div> <div>Warehouse</div> <div>Location</div> <div>Main Warehouse</div> <div>ST</div> <div>114055</div> </div> <div> <div>Loc Qty</div> <div>50</div> <div>50</div> </div> <div> <div>Loc Code</div> <div></div> </div> </div> <div> <div>6</div> <div>Ep 10/03/16</div> </div>												

Tuesday, March 09, 2010 12:35:28 PM

Shop Packet Print

Page 7

Picklist Print

Page 8

Tuesday, March 09, 2010 12:35:28 PM

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Parent Item: D350-689-041



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IPP Rev:I As per NCR 070 06-09-06 JLM IPP Rev:J as per
DSI 9498 DD 10.02.12 verified by:JLM

Start Qty: 1.00

Required Qty: 1.00

Component Item ID/	Replacement	Mfg/	Bin	Primary	Last	Route	Unit of	Qty on	Remaining	Qty	Date	Status
NA51149D0432J		Purchased	No			140	Each	44.0000	6.0000			
WASHER												



EP 10/03/10

Warehouse

Loc Qty

Loc Code

Location

Main Warehouse

ST

44

112557

44

6

Tuesday, March 09, 2010 12:35:28 PM

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Page 8